MULTIMEDIA UNIVERSITY

STUDENT IDENTIFICATION NO

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FINAL EXAMINATION

TRIMESTER 1, 2016 / 2017

BSH3044 – OCCUPATIONAL SAFETY AND HEALTH

(All sections / Groups)

22nd OCTOBER 2016
2.30pm – 4.30pm
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This question paper consists of **THREE (3)** pages with **TWO (2)** sections only.
2. Section A: **ONE (1)** Case Study. Attempt **ALL** questions.
   Section B: **FOUR (4)** Structural Questions. Attempt **THREE (3)**.
3. Please write all your answers in the answer booklet provided.

SECTION A: CASE STUDY (40 marks)

MRT Semantan Mishaps

KUALA LUMPUR, Feb 27, 2015 - One worker was killed and another injured following an accident at the Semantan work site of the Mass Rapid Transit (MRT) line today. The incident occurred at approximately 1.20pm at the construction site contracted to Sunway Construction, MRT Corp Director of Strategic Communications and Public Relations Amir Mahmood Razak said. "The workers were on the ground assembling a rebar (reinforcing bars) cage... during the assembly, the tie gave way. The rebars fell and hit the workers," he said, referring to a circular cluster of long steel rods each weighing 40kg.

He added that the cause of death of Rijaul Abdul Goni, 40-year-old worker from Bangladesh, was still unknown pending a post-mortem report. Amir said the worker could have succumbed to internal injuries but did not want to speculate further. Shanuallah, 37, also a Bangladesh national, was injured and taken to Hospital Kuala Lumpur. Amir could not confirm the injuries sustained by Shanuallah. Amir added that another worker, Rozlu Karim, was involved in the incident, but did not sustain injuries and will serve as a witness throughout the duration of the investigation. "He will be a witness for the investigation. We already convened a meeting at 4.30pm just now," he said.

The trio were hit while standing at predetermined spaces while lifting the bars, Fire and Rescue Department assistant director (operations) Azizan Ismail said. "They were tying the steel rod to make a circular frame, and then it fell, maybe about five to six steel rods fell on them...maybe, about five to six feet up," Azizan said. Last August, three Bangladeshi construction workers were killed at a Kota Damansara site after a 38m-long span weighing 650 tonnes was dislodged from a guideway under construction and fell to the ground below.

This incident prompted MRT Corp's then chief executive Datuk Azhar Abdul Hamid to offer his resignation and take responsibility for the accident. The company later rejected his resignation. Last June, a slab of metal fell from an MRT construction site in Pusat Bandar Damansara onto the main road and crushed the passenger side of a car. There were no passengers in the vehicle and the driver escaped unhurt. The Klang Valley MRT project is Malaysia's most ambitious infrastructure undertaking and aims to connect the Greater Kuala Lumpur area via a three-line rail transit network. The construction of its first line began 2011 and is scheduled for completion in 2016.

Source: *http://www.themalaymailonline.com/malaysia/article/accident-at-mrt-semantan-construction-site-two-workers-trapped#sthash.0gTNTiDr.dpuf*

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QUESTIONS

(a) Based on the tragedy above, propose **FIVE (5)** steps to follow in conducting an accident investigation.

(10 marks)

(b) Even though managers implementing safety and health procedures on organization, there will still be accidents occurred. Discuss **FIVE (5)** common causes of all accidents.

(20 marks)

(c) There are cases happening in other parts of the world whereby accidents were not reported to authorities. Discuss the reasons why some organization fails to report an accident.

(10 marks)

(Total: 40 marks)

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SECTION B: STRUCTURED QUESTIONS (60 marks)
Attempt THREE (3) questions only.

QUESTION 1

In an effective ergonomics program, health care providers should be part of the ergonomics team interacting and exchanging information routinely to prevent and treat trauma properly.

Explain **EIGHT (8)** responsibilities of healthcare providers towards an organization in keeping the workers safe and healthy.

(20 marks)

QUESTION 2

As a safety manager, critically discuss **FIVE (5)** common types of airborne contaminants.

(20 marks)

QUESTION 3

Safety committees provide a formal structure through which employees & management can funnel concerns & suggestion about safety and health issues. The most effective committee are those with a broad cross-section of workers representing all departments.

Discuss **FIVE (5)** Do's and **FIVE (5)** Don'ts of a safety committees in handling and promoting safety and health issues.

(20 marks)

QUESTION 4

One of the best ways to promote safety is to design it into the tools, machines, and technologies with which people interact in the workplace. It is important to have accident prevention procedures & ensure that employees follow them. The purpose of safety promotion is to keep employees focused on doing their work the safe way, every day.

(a) Identify **FIVE (5)** ways to ensure safety and health visual aids can help employees in reducing workplace accidents.

(10 marks)

(b) Discuss why persuasions are one of the important tools in promoting safety and health among employees.

(10 marks)

End of Paper